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Document Objectives

This guide provides physical installation, LAN/WAN IP configurations, and Internet access establishment information for the PLANET VIP-160/VIP-260 voice gateway.

Document Organization

This guide is organized as follows:

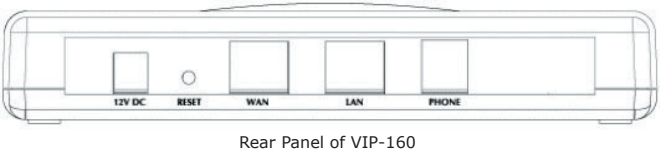
- Preparation before beginning administration on VIP-160/VIP-260
- Administration interface
- LAN/WAN Interface quick configurations
- Internet access setup guide

Preparation before beginning administration on VIP-160/VIP-260

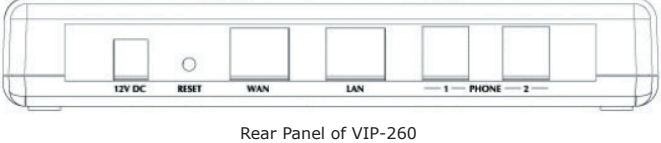
Physical Installation

Front Panel of VIP-160

Front Panel of VIP-260



Rear Panel of VIP-160



Rear Panel of VIP-260

- Ensure VIP-160/VIP-260 is power OFF before commencing, and check the power supply status.

- Use standard LAN cables to connect PCs to the LAN ports on VIP-160/VIP-260.
- Connect the supplied Power Adapter and power on.
- Check the LEDs -

  -- The CPU LED should flash, the PWR LED should be ON.

  -- For each active LAN (PC) connection, the LAN LNK/ACT LED should be ON.

  -- If the WAN interface is properly connected with xDSL modem or switch, the WAN LED should be ON

Administration Interface

PLANET VIP-160/VIP-260 provides GUI (Web based, Graphical User Interface) for machine status monitoring and administration.

Web configuration access:

VIP-160/260 provides web-based machine administrations.

Before starting VIP-160/VIP-260 web configurations, you must have one of these web browsers installed on computer for management

- Netscape Communicator 4.03 or higher
- Microsoft Internet Explorer 4.01 or higher with Java support

Default LAN interface IP address of VIP-160/VIP-260 is **192.168.0.1**. You may now open your web browser, and insert ***192.168.0.1*** in the address bar of your web browser to logon VIP-160/VIP-260 web configuration page.

Log in

VIP-160/VIP-260 will prompt for logon password, please enter: ***user*** to start user mode machine administration.

✍ NOTE:

Please locate your PC in the same network segment (192.168.0.x) of VIP-160/VIP-260. If you're not familiar with TCP/IP settings, please refer to related chapter on user's manual CD, consult experienced personnel or network administrator for proper network configurations.

Internet Access Setup

After logging in, the user administration interface will be shown. Main control items are available in the left control panel.

LAN/WAN Interface quick configurations

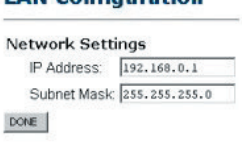
Nature of PLANET VIP-160/VIP-260 is an IP Sharing (NAT) device, it comes with two default IP addresses, and default LAN side IP address is "**192.168.0.1**", default WAN side IP address is "**172.16.0.1**". You may use any TCP/IP compliant PC to connect to the LAN port of VIP-160/VIP-260 to start machine administration.,

Hint:

In general cases, the LAN IP address is the default gateway of LAN side workstations for Internet access, and the WAN IP of VIP-160/VIP-260 is the IP address for remote calling party to connect to.

LAN IP address configuration via web configuration interface

Make sure the LAN connection is established from your workstation, execute your web browser, and insert the IP address (default: **192.168.0.1**) of VIP in the adddress bar. After logging on machine with password (default: **user**), browse to "**Internet Access Setup**" --> "**LAN**" configuration menu:



Parameter Description

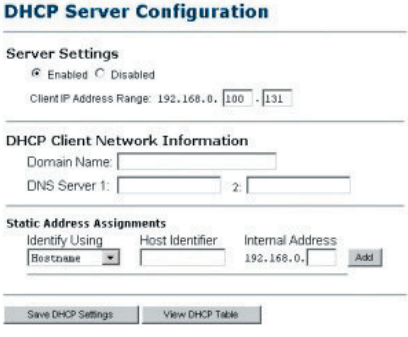
IP address	LAN IP address of VIP **Default:** 192.168.0.1
Subnet Mask,	LAN mask of VIP-160/VIP-260 **Default:** 255.255.255.0

Hint: The LAN port IP address can be modified to meet the field application. **Please be reminded: the new IP address will be effective when clicking the "DONE" button.**

DHCP server settings

By default, VIP-160-VIP-260 will act as a DHCP Server, which automatically provides a suitable IP Address (and related information) to each PC for network IP allocation and Internet access.

VIP-160-VIP-260 utilizes the TCP/IP network protocol for all functions, so it is essential that the TCP/IP protocol be installed and configured on each PC.



Parameter Description

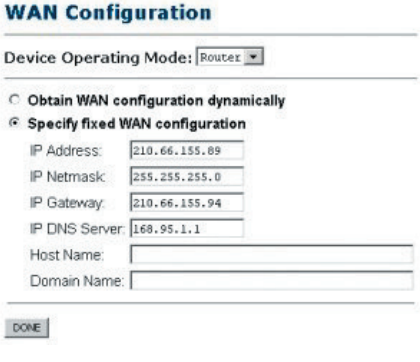
DHCP server setting	Enable or disable PPPoE service **Default:** Enabled
DHCP client IP Range	The values used by the DHCP server when allocating IP Addresses to DHCP clients. This range also determines the number of DHCP clients supported. **Default:** 192.168.0.100 – 192.168.0.131
DHCP Client Network information	DHCP related settings

Domain name	Domain name of the DHCP network **Default:** null
DNS setting	DNS server IP address to be assigned to DHCP clients **Default:** null
Static IP address	Select this if you'd like to reserve a Fixed (Static) IP address for a specific
Assignment	computer(s) Enter the IP address allocated to the computer. **Default:** null

Hint: If you are already using a DHCP Server, this setting must be **disabled**, and the existing DHCP server must be re-configured to treat VIP-160/VIP260 as the default Gateway.

WAN IP address configurations

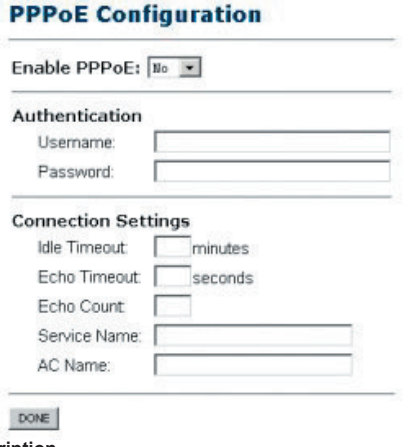
Execute your web browser, and browse to "**Internet Access Setup**" --> "**WAN**" configuration menu, you will see the configuration screen below:



Connection Type	Data required.
Obtain WAN configuration dynamically	If this mode is selected, machine will act as a DHCP client to obtain IP address information from DHCP server for Internet access. Usually, no special data required for this mode. However, some ISP may require a particular Hostname, Domain name, or MAC (physical) address.
Specify fixed WAN configuration	IP Address information are assigned by your ISP, please refer to the provided information to complete the settings.

PPPoE connection

If your ISP provides PPPoE type Internet access, please login machine and browse to "**Internet Access Setup**" --> "**PPPoE**" configuration menu, the configuration menu will be display as below:



Parameter Description

Enable PPPoE	Enable or disable PPPoE service **Default:** Disabled
Authentication	Insert the username/password in this field to establish Internet access **Default:** null

Connection Settings PPPoE related settings

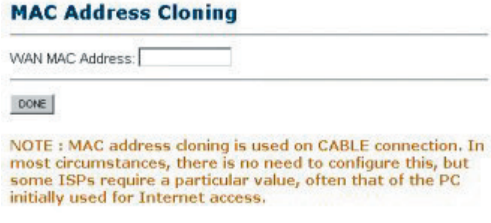
Idle timeout	When the timeout value is reached, machine will disconnect the current PPPoE Session **Default:** null
Echo Timeout	The duration between PPP echo requests being sent to the server. **Default:** null
Echo Count	The number of unanswered PPP echo requests before the PPP connection is closed. **Default:** null
Service name	PPPoE service name **Default:** null
AC name	PPPoE AC name **Default:** null

Hint:

Please consult your ISP personnel to obtain proper PPPoE/IP address related information, and input carefully.
If Internet connection cannot be established, please check the physical connection or contact the ISP service staff for support information.

MAC Address Cloning

Some ISP demands the MAC address of the PC for Internet access. The Host Name and MAC address section is optional and you can skip this section if your ISP does not require these settings for you to connect to the Internet.


MAC Address Cloning
WAN MAC Address:
DONE
NOTE : MAC address cloning is used on CABLE connection. In most circumstances, there is no need to configure this, but some ISPs require a particular value, often that of the PC initially used for Internet access.

Windows clients Internet Access Setup

- When WAN interface of VIP-160/VIP-260 is properly configured, with default Windows TCP/IP settings, no changes need to be made on LAN side PC for Internet access.
- If using a specified (fixed) IP address on your PC, refer to the user manual for details of the required changes:

- The Gateway must be set to the LAN port IP address of VIP-160/VIP-260
- The DNS should be set to the address provided by your ISP.

For Windows 9x/ME/2000

- Select Start Menu - Settings - Control Panel - Internet Options.
- Select the Connection tab, and click the Setup button.
- Select "I want to set up my Internet connection manually, or I want to connect through a local area network (LAN)" and click Next.
- Select "I connect through a local area network (LAN)" and click Next.
- Ensure all of the boxes on the following Local area network Internet Configuration screen are **unchecked.**
- Check the "No" option when prompted "Do you want to set up an Internet mail account now?".
- Click Finish to close the Internet Connection Wizard.

Setup is now completed.

For Windows XP

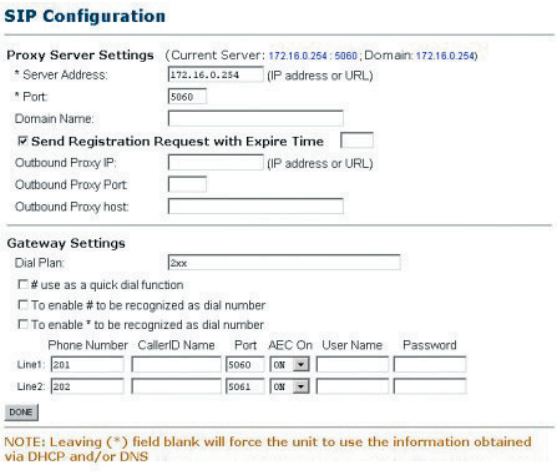
- Select Start Menu - Control Panel - Network and Internet Connections.
- Select Set up or change your Internet Connection.
- Select the Connection tab, and click the Setup button.
- Cancel the pop-up "Location Information" screen.
- Click Next on the "New Connection Wizard" screen.
- Select "Connect to the Internet" and click Next.
- Select "Set up my connection manually" and click Next.
- Check "Connect using a broadband connection that is always on" and click Next.
- Click Finish to close the New Connection Wizard.

Setup is now completed.

SIP configuration via web configuration interface

Planet VIP-160/VIP-260 provides two levels of SIP configurations to meet various application demands and offers more functionality.

To start SIP configurations, please login machine and browse to **SIP Configuration** menu.


SIP Configuration
Proxy Server Settings (Current Server: 172.16.0.254 : 5060 ; Domain: 172.16.0.254)
* Server Address: 172.16.0.254 (IP address or URL)
* Port: 5060
Domain Name:
Send Registration Request with Expire Time
Outbound Proxy IP: (IP address or URL)
Outbound Proxy Port:
Outbound Proxy host:
Gateway Settings
Dial Plan: 2xx
use as a quick dial function
To enable # to be recognized as dial number
To enable * to be recognized as dial number
Phone Number CallerID Name Port AEC On User Name Password
Line1: 201 5060 ON
Line2: 202 5061 ON
DONE
NOTE: Leaving (*) field blank will force the unit to use the information obtained via DHCP and/or DNS

Parameter Description

Proxy Server Settings

Server Address	IP address or URL of the SIP proxy server **Default:** 172.16.0.254 **<NOTE>** In most cases, this information is provided by your ITSP
Port number	SIP communication port number **Default:** 5060
Domain name	Domain name of SIP proxy server **Default:** null **<NOTE>** In most cases, this information is provided by your ITSP
Outbound Proxy IP	IP address of the SIP outbound proxy server **Default:** null
Outbound Proxy Port	Communication port number of the SIP outbound proxy server **Default:** null
Outbound Proxy Host	Domain name of the SIP outbound proxy server **Default:** null

Voice Gateway Settings

Dialplan	MAX. length of dialing string **Default:** 2xx
# use as a quick dial function	Check this item to enable the "#" key **Default:** uncheck
To enable # to be recognized as dial number	In some circumstances, the symbol "#" needs to be sent as dialing number. Please enable this if your ITSP ask for this. **Default:** uncheck
To enable # to be recognized as dial number	In some circumstances, the symbol "*" needs to be sent as dialing number. Please enable this if your ITSP ask for this. **Default:** uncheck

Hint:

Please consult your ITSP personnel to obtain proper SIP related information, and input carefully.
If voice session cannot be established, please double check the SIP server settings, dialplan, configurations or contact the service staff for support information.

Voice communication samples

In the following section, we'll introduce how to establish the voice communication via a pair of VIP-160/260 (Peer-to-Peer) and the SIP proxy enabled application.

Before starting:

a. Check machine default configurations

Without any configuration, your VIP comes with following basic information.

Network:

WAN IP: 172.16.0.1, Mask: 255.255.255.0, Gateway: 172.16.0.254

LAN IP: 192.168.0.1, Mask: 255.255.255.0

DHCP server: ON

Dial Plan:

	Phone Number	Caller ID name	Port	AEC	Username	Password
LINE1	201		5060	ON		
LINE2	202		5061	ON		

b. Check machine physical connections

If you have one VIP-260 with two telephones, say port 1 and port 2, you may connect either port 1 or port 2 to the telephone set

If you have a VIP-160, the connection can b shown below:

Hint: You can also check LED indicators on VIP for telephony port status. When an incoming call reaches VIP, the LED should flash. And after picking up the handset, it will turn solid and goes off after the phone is onhook.

Peer-To-Peer voice communication

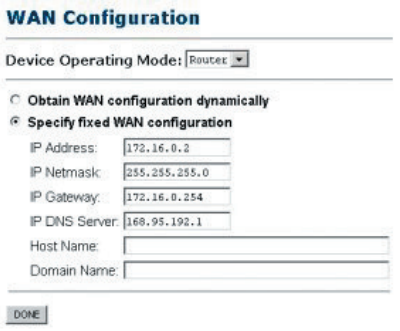
The previous section shows you how to test your VIP without modify any settings. This section we will shows you how to connect two VIP together and make the call.

Assume that we have a second ITG, called VIP B, which is a VIP-160 with default setting as well. Now, let's setup its WAN IP address to another, e.g. '172.16.0.2' and connect it together to VIP A with the following steps.

Step 1.

On VIP B:

Log on machine via web browser, and browse to **Internet access Setup** -- > **WAN configuration**



Enter IP address "**172.16.0.2**" Mask "**255.255.255.0**", gateway "**172.16.0.254**" and DNS information "**168.95.192.1**".

After these, please click "**DONE**", and browse to "**Tool**" menu to reboot machine and activate the settings.

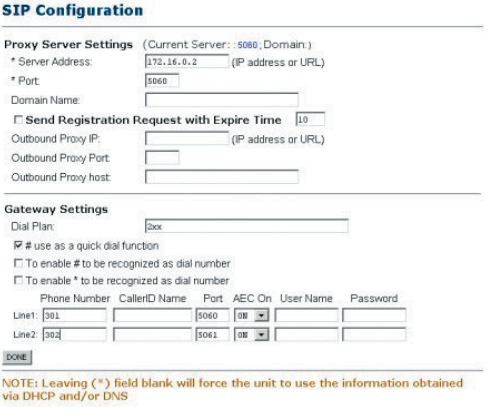
Step 2.

Connect WAN port of VIP A and VIP B to the same switch or hub; please make sure the physical connection is ready.

Step 3.

Now let's setup the SIP settings to establish voice communications to each other.

SIP configurations and dialplan setting on VIP A:


SIP Configuration
Proxy Server Settings (Current Server: 5060 ,Domain:)
* Server Address: 172.16.0.2 (IP address or URL)
* Port: 5060
Domain Name:
Send Registration Request with Expire Time 10
Outbound Proxy IP: (IP address or URL)
Outbound Proxy Port:
Outbound Proxy host:
Gateway Settings
Dial Plan: 2xx
use as a quick dial function
To enable # to be recognized as dial number
To enable * to be recognized as dial number
Phone Number CallerID Name Port AEC On User Name Password
Line1: 301 5060 ON
Line2: 302 5061 ON
DONE
NOTE: Leaving (*) field blank will force the unit to use the information obtained via DHCP and/or DNS

Configured Parameter

SIP setting

Server Address IP address of VIP B: ***172.16.0.2***

Port number SIP communication port number on VIP B: ***5060***

Voice Gateway Settings

Dialplan ***2xx***

Line: Number of local telephony interface: ***301*** and ***302***

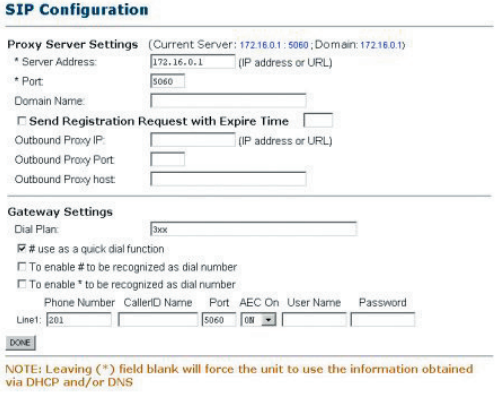
Check the " ***# use as a quick dial function***" item to enable the "#" key as terminal digit.

Note: when this item is checked, dialing digits will be sent when pressing the # key.

Hint: In Peer-to-Peer mode, please ***UNCHECK*** the "S***end Registration Request with Expire Time***" while calling to remote party.

Hint: The dialing number length can be modified to meet the field application. For example, the dialplan is "***2xxxxx***", which indicates there is Max. 6 digits in the dialing string, and should be started with "***2***".

SIP configurations and dialplan setting on VIP B:


SIP Configuration
Proxy Server Settings (Current Server: 172.16.0.1 : 5060 ; Domain: 172.16.0.1)
* Server Address: 172.16.0.1 (IP address or URL)
* Port: 5060
Domain Name:
Send Registration Request with Expire Time
Outbound Proxy IP: (IP address or URL)
Outbound Proxy Port:
Outbound Proxy host:
Gateway Settings
Dial Plan: 3xx
use as a quick dial function
To enable # to be recognized as dial number
To enable * to be recognized as dial number
Phone Number CallerID Name Port AEC On User Name Password
Line1: 201 5060 ON
DONE
NOTE: Leaving (*) field blank will force the unit to use the information obtained via DHCP and/or DNS

Configured Parameter

SIP setting

Server Address	IP address of VIP A ***172.16.0.1***
Port number	SIP communication port number on VIP A: ***5060***

Voice Gateway Settings

Dialplan	***3xx***
Line:	Number of local telephony interface: ***201***

Check the " ***# use as a quick dial function***" item to enable the "#" key as terminal digit.

Note: when this item is checked, dialing digits will be sent when pressing the # key.

Hint: The dialing number length can be modified to meet the field application. For example, the dialplan is "***2xxxxx***", which indicates the length of dialed numbers 6 digits Max. and should be started with "2".

Hint: In the example, we assign the telephony interface on VIP with a unique number. It is easier for users to think of it is as like regular PSTN number. To make calls between the units are not breaking the rules of PSTN dialing.

Hint: If you cannot hear the ring, please do make sure:

1) Network settings on both VIP are properly configured.
2) Check if the correct number is sent to calling party. In this example, the correct phone number should be "30x" on VIP A, and "20x" on VIP B. where X follows the port.

Please make sure the numbers are correct in configurations

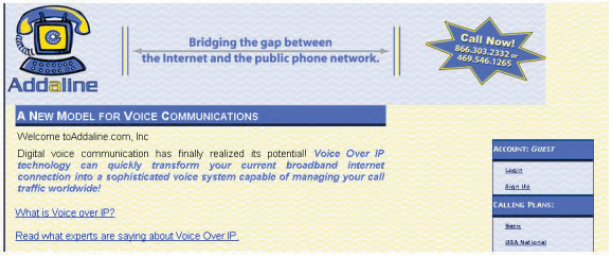
After all the configurations above, you may establish the voice communications between site A and site B.

Voice communication via SIP proxy

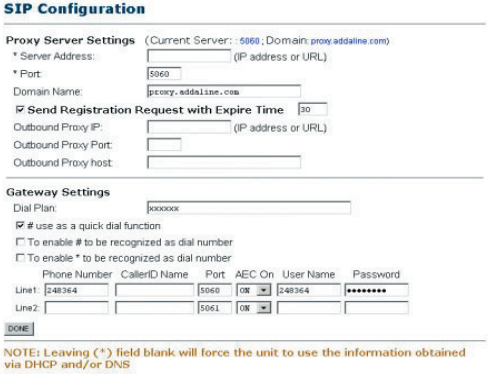
PLANET VIP-160/VIP-260 are able to establish voice communications via SIP proxy server. Users need to apply voice account information while making calls..

Following steps will describe how to make calls via Internet Telephony Service Provider (www.addavoice.com)

a) Go to www.addavoice.com to register an account for voice calls.


Addaline
Bridging the gap between
the Internet and the public phone network.
Call Now!
866.303.2332 or
469.546.1265
A NEW MODEL FOR VOICE COMMUNICATIONS
Welcome toAddaline.com, Inc
Digital voice communication has finally realized its potentiall Voice Over IP technology can quickly transform your current broadband internet connection into a sophisticated voice system capable of managing your call traffic worldwide!
What is Voice over IP?
Read what experts are saying about Voice Over IP
ACCOUNT: GUEST
Login
Sign Up
CALLING PLANS:
Basic
USA National

b) After signing up, browse to SIP configuration page of VIP-160/260. Insert the Proxy server, server communication port, username, and password field.


SIP Configuration
Proxy Server Settings (Current Server: : 5060 ; Domain: proxy.addaline.com)
* Server Address: (IP address or URL)
* Port: 5060
Domain Name: proxy.addaline.com
Send Registration Request with Expire Time 30
Outbound Proxy IP: (IP address or URL)
Outbound Proxy Port:
Outbound Proxy host:
Gateway Settings
Dial Plan: xxxxxx
use as a quick dial function
To enable # to be recognized as dial number
To enable * to be recognized as dial number
Phone Number CallerID Name Port AEC On User Name Password
Line1: 248364 5060 ON 248364
Line2: 5061 ON
DONE
NOTE: Leaving (*) field blank will force the unit to use the information obtained via DHCP and/or DNS

Configured Parameter

SIP setting

Domain name of Proxy Server	SIP Proxy server name. ***<NOTE>*** this information is provided by your ITSP
Port number	SIP communication port number. ***<NOTE>*** this information is provided by your ITSP. In most cases, the port number is ***5060***.

Voice Gateway Settings

Dialplan Length	***xxxxxx***
Line:	LINE1 registered number: ***248364***

Username	Username used to register with SIP proxy ***<NOTE>*** this information is provided by your ITSP
Password	Password used to register with SIP proxy ***<NOTE>*** this information is provided by your ITSP

Check the " ***# use as a quick dial function***" item to enable the "#" key as terminal digit.

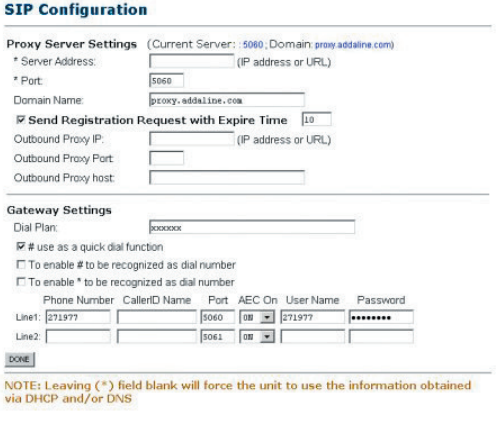
Note: when this item is checked, dialing digits will be sent when pressing the # key.

Hint: The required parameters (proxy server, username, password.) will be provided by service provider. Please be sure to check and input the parameters to register and make calls on your side.

c) After these parameters are inserted, click "***DONE***", and browse to "***Tools***" menu to reboot the VIP-160/260and make the configuration effective.

d) Apply the registration information on another VIP-160 or VIP-260.

The configurations can be shown below:


SIP Configuration
Proxy Server Settings (Current Server: :5060 ; Domain: proxy.addaline.com)
* Server Address: (IP address or URL)
* Port: 5060
Domain Name: proxy.addaline.com
Send Registration Request with Expire Time 10
Outbound Proxy IP: (IP address or URL)
Outbound Proxy Port:
Outbound Proxy host:
Gateway Settings
Dial Plan: xxxxxx
use as a quick dial function
To enable # to be recognized as dial number
To enable * to be recognized as dial number
Phone Number CallerID Name Port AEC On User Name Password
Line1: 271977 5060 On 271977
Line2: 5061 On
DONE
NOTE: Leaving (*) field blank will force the unit to use the information obtained via DHCP and/or DNS

e) After these settings, voice communication between the units shall be established.

Hint:

The actual inserted parameters may vary to reflect different ITSP demands. Please be sure to obtain proper information. (proxy server, username, password ... etc.)from the service provider for proper machine operations.

Quick reference in CD-ROM guide

This guide is used to help you startup your VIP settings. It is also recommended to check the user manual CD-ROM for more details information, and how to set the device back to default value.

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